

## CLAIMS:

1. A synthetic sports or recreation surface including: a drainage layer including a first  
5 flexible backing sheet and a plurality of synthetic tufts, said tufts being attached to and  
extending upwardly from said first backing sheet; a water-permeable synthetic turf  
layer disposed above the drainage layer, said turf layer including a second flexible  
backing sheet and a plurality of synthetic ribbons extending upwardly from said  
second backing sheet to provide a playing surface, said second backing sheet being  
10 water-permeable; attachment means for attaching said synthetic turf layer to said  
drainage layer; and a layer of a granular infill material filling the voids between the  
ribbons in the synthetic turf layer.
2. A synthetic sports or recreation surface according to claim 1 wherein said tufts in  
15 the drainage layer are loop pile tufts.
3. A synthetic sports or recreation surface according to claim 2 wherein said loop pile  
tufts are tufted into said first backing sheet.
- 20 4. A synthetic sports or recreation surface according to claim 3 wherein said tufts are  
arranged in parallel rows, said tufts being tufted into the first backing sheet at a gauge  
of about 1/4".
5. A synthetic sports or recreation surface according to claim 2 wherein the height of  
25 the loop pile tufts lies between 3 and 9 mm.
6. A synthetic sports or recreation surface according to claim 5 wherein said height is  
about 5-7 mm.
- 30 7. A synthetic sports or recreation surface according to claim 2 wherein said loop pile  
tufts are made of polypropylene, polyethylene or a polypropylene and polyethylene  
blend.

8. A synthetic sports or recreation surface according to claim 1 wherein said tuft material is the form of a yarn.
- 5 9. A synthetic sports or recreation surface according to claim 1 wherein said first backing sheet is latex-backed.
- 10 10. A synthetic sports or recreation surface according to claim 1 wherein the first backing sheet is less water-permeable than the second backing sheet.
11. A synthetic sports or recreation surface according to claim 1 wherein the first backing sheet has a water permeability of less than 10%.
- 15 12. A synthetic sports or recreation surface according to claim 11 wherein the first backing sheet has a water permeability of about 3-5%.
13. A synthetic sports or recreation surface according to claim 1 wherein said attachment means is a seaming tape.
- 20 14. A synthetic sports or recreation surface according to claim 1 wherein said second backing sheet is micro-perforated.
15. A synthetic sports or recreation surface according to claim 14 wherein said perforation is uniform.
- 25 16. A synthetic sports or recreation surface including: a drainage layer including a first flexible backing sheet and a plurality of synthetic tufts, said tufts being attached to and extending upwardly from said first backing sheet; a water-permeable synthetic grass layer disposed above the drainage layer, said grass layer including a second flexible
- 30 backing sheet and a plurality of synthetic ribbons, representing blades of grass, said synthetic ribbons being attached to and extending upwardly from said second backing

sheet, said backing sheet being water-permeable; and attachment means for attaching said synthetic grass layer to said drainage layer.

17. A synthetic sports or recreation surface according to claim 16 wherein said tufts in  
5 the drainage layer are loop pile tufts.

18. A synthetic sports or recreation surface according to claim 17 wherein said loop pile tufts are tufted into said first backing sheet.

10 19. A synthetic sports or recreation surface according to claim 18 wherein said tufts are arranged in parallel rows, said tufts being tufted into the first backing sheet at a gauge of about 1/4".

15 20. A synthetic sports or recreation surface according to claim 17 wherein the height of the loop pile tufts lies between 3 and 9 mm.

21. A synthetic sports or recreation surface according to claim 20 wherein said height is about 5-7 mm.

20 22. A synthetic sports or recreation surface according to claim 16 wherein said first backing sheet is latex-backed.

23. A synthetic sports or recreation surface according to claim 16 wherein the first backing sheet is less water-permeable than the second backing sheet.

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24. A synthetic sports or recreation surface according to claim 16 wherein the first backing sheet has a water permeability of less than 10%.

25. A synthetic sports or recreation surface according to claim 24 wherein the first  
30 backing sheet has a water permeability of about 3-5%.

26. A synthetic sports or recreation surface according to claim 16 wherein said attachment means is a seaming tape.

27. A synthetic sports or recreation surface according to claim 16 wherein said second  
5 backing sheet is micro-perforated.

28. A synthetic sports or recreation surface according to claim 27 wherein said perforation is uniform.

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